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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,277	03/29/2004	Iwen Chao	884.C26US1	2251
21186 7	08/09/2005		EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.			LEWIS, MONICA	
P.O. BOX 293 MINNEAPOL	8 IS, MN 55402-0938		ART UNIT PAPER NUMBER	
			2822	
			DATE MAILED: 08/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			11.
	Application No.	Applicant(s)	
	10/812,277	CHAO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Monica Lewis	2822	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be ti reply within the statutory minimum of thirty (30) da od will apply and will expire SIX (6) MONTHS fron tute, cause the application to become ABANDON!	mely filed ys will be considered timely, n the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 29	March 2 <u>004</u> .		
,_ ,	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	· · · · · · · · · · · · · · · · · · ·		
Disposition of Claims			
4) ☐ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are with description 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-20 are subject to restriction and/or subjection Papers	lrawn from consideration.		
	•		
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) □ a		Evaminor	
Applicant may not request that any objection to t			
Replacement drawing sheet(s) including the corn 11) The oath or declaration is objected to by the	rection is required if the drawing(s) is ol	bjected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bure * See the attached detailed Office action for a least	ents have been received. ents have been received in Applica riority documents have been receiv eau (PCT Rule 17.2(a)).	tion No red in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summar		
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 	Paper No(s)/Mail D Notice of Informal Other:	Patent Application (PTO-152)	

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DETAILED ACTION

1. This action is in response to the application filed March 29, 2004.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-7 and 18-20, drawn to a semiconductor device comprising an interposer that folds, classified in class 257, subclass 778.
 - II. Claims 8-17, drawn to a process for preparing a semiconductor device that has an interposer, classified in class 438, subclass 106.

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). The product can be made by the following methods: a) the second die could be secured to a second surface of the interposer before the interposer is folded.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

3. If the Applicant selects Invention I disclosed then application contains claims directed to the following patentably distinct species of the claimed invention:

Embodiment I (Claims 1-7), directed to a semiconductor device comprising an interposer, a first die attached to the first surface of the interposer, a contact attached to the first surface of the interposer at the first section, a second die attached to a second surface of the interposer, the second die being stacked onto the first die and electrically coupled to the first die by the contact and conductive paths that are part of the interposer; and

Embodiment II (Claims 18-20), directed to a semiconductor device comprising a bus, a memory coupled to the bus, an interposer, a first die attached to the first surface of the interposer, a contact attached to the first surface of the interposer at the first section, a second die attached to a second surface of the interposer, the second die being stacked onto the first die and electrically coupled to the first die by the contact and the interposer.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none are generic.

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Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

4. A telephone call was made to Ann M. McCrackin on 7/19/05 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica Lewis whose telephone number is 571-272-1838. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300 for regular and after final communications. Any inquiry of a general nature or relating to the

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status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

ML

August 2, 2005

M. K.